

Bibliography

- Ananda, M. P., "Lunar Gravity: A Mass Point Model," *J. Geophys. Res.*, Vol. 82, No. 20, pp. 3049-3064, July 10, 1977.
- Anderson, J. D., et al., "Experimental Test of General Relativity Using Time-Delay Data From Mariner 6 and Mariner 7," *Astrophys. J.*, Vol. 200, No. 1 pp. 221-233, Aug. 15, 1975.
- Anderson, J. D., et al., "Tests of General Relativity Using Astrometric and Radio Metric Observations of the Planets," *Acta Astronautica*, Vol. 5, No. 1-2, pp. 43-61, Jan.-Feb. 1978.
- Barton, W. R., and Miller, R. B., *Tracking and Data System Support for the Pioneer Project: Pioneer 11—Prelaunch Planning Through Second Trajectory Correction: 'to May 1, 1973*, Technical Memorandum 33-584, Vol. II, Jet Propulsion Laboratory, Pasadena, Calif., Mar. 15, 1975.
- Bartos, K. P., et al., *Implementation of the 64-Meter-Diameter Antennas at the Deep Space Stations in Australia and Spain*, Technical Memorandum 33-692, Jet Propulsion Laboratory, Pasadena, Calif., Jan. 15, 1975.
- Bathker, D. A., Brown, D. W., and Petty, S. M., *Single- and Dual-Carrier Microwave Noise Abatement in the Deep Space Network*, Technical Memorandum 33-733, Jet Propulsion Laboratory, Pasadena, Calif., Aug. 1, 1975.
- Bathker, D. A., *Microwave Performance Characterization of Large Space Antennas*, Publication 77-21, Jet Propulsion Laboratory, Pasadena, Calif., May 15, 1977.
- Batty, M., Jauncey, D., and Gulkis, S., "Planetary Observations with the Tidbinbilla Interferometer," *Proc. Astron. Soc. Aust.*, Vol. 4, 72, 1980.
- Batty, M., Jauncey, D., Rayner, P., and Gulkis, S., "Evidence for Changes in the Microwave Brightness Temperature and Spectrum of Uranus," *The Astr. J.*, Vol. 243, pp. 1058-1061, 1981.
- Beatty, R. W., and Otoshi, T. Y., "Effect of Discontinuities on the Group Delay of a Microwave Transmission Line," *IEEE Trans. Microwave Theor. Techniq.*, Vol. MTT-23, No. 11, pp. 919-923, Nov. 1975.
- Benjauthrit, B., and Reed, I. S., "Galois Switching Functions and Their Applications," *IEEE Trans. Comput.*, Vol. C-25, No. 1, pp. 78-86, Jan. 1976.
- Benjauthrit, B., and Reed, I. S., "On the Fundamental Structure of Galois Switching Functions," *IEEE Trans. Comput.*, Vol. C-27, No. 8, pp. 757-762, Aug. 1978.
- Berlekamp, E. R., et al., "On the Inherent Intractability of Certain Coding Problems," *IEEE Trans. Inform. Theor.*, Vol. IT-24, No. 3, pp. 384-386, May 1978.
- Berman, A. L., and Ramos, R., "Pioneer Venus Occultation Radio Science Data Generation," *IEEE Trans. Geosci. and Remote Sensing*, Vol. GE-18, No. 1, pp. 11-14, Jan. 1980.
- Berman, A. L., and Rockwell, S. T., *New Optical and Radio Frequency Angular Tropospheric Refraction Models for Deep Space Applications*, Technical Report 32-1601, Jet Propulsion Laboratory, Pasadena, Calif., Nov. 1, 1975.

- Berman, A. L., *The Prediction of Zenith Range Refraction From Surface Measurements of Meteorological Parameters*, Technical Report 32-1602, Jet Propulsion Laboratory, Pasadena, Calif., July 15, 1976.
- Berman, A. L., and Renzetti, N. A., *The Deep Space Network—An Instrument for Radio Science Research*, Publication 80-93, Jet Propulsion Laboratory, Pasadena, Calif., Feb. 15, 1981.
- Bird, M. K., "Coronal Investigations with Occulted Spacecraft Signals," *Space Sci. Rev.*, Mar. 1982.
- Born, G. H., and Mohan, S. N., "Orbit Determination for Mariner 9 Using Radio and Optical Data," *J. Spacecraft Rockets*, Vol. 12, No. 7, pp. 439-441, July 1975.
- Butman, S. A., "Linear Feedback Rate Bounds for Regressive Channels," *IEEE Trans. Inform. Theor.*, Vol. IT-22, No. 3, pp. 363-366, May 1976.
- Butman, S. A., et al., "Design Criteria for Noncoherent Gaussian Channels With MFSK Signaling and Coding," *IEEE Trans. Commun.*, Vol. COM-24, No. 10, pp. 1078-1088, Oct. 1976.
- Butman, S. A., and Lesh, J. R., "The Effects of Bandpass Limiters on n -Phase Tracking Systems," *IEEE Trans. Commun.*, Vol. COM-25, No. 6, pp. 569-576, June 1977.
- Chao, C.-C., "Interstation Frequency Offset Determination Using Differenced 2-Way/3-Way Doppler Data," paper presented at the 1978 Spring Meeting of the American Geophysical Union, Miami, Florida, Apr. 17-20, 1978.
- Christensen, C. S., and Reinold, S. J., "Navigation of the Mariner 10 Spacecraft to Venus and Mercury," *J. Spacecraft Rockets*, Vol. 12, No. 5, pp. 280-286, May 1975.
- Christensen, C. S., et al., "On Achieving Sufficient Dual Station Range Accuracy for Deep Space Navigation at Zero Declination," paper presented at AAS/AIAA Astrodynamics Specialist Conference, Jackson Hole, Wyo., Sept. 7-9, 1977.
- Christensen, E. J., et al., "The Mass of Phobos from Viking Flybys," *Geophys. Res. Lett.*, Vol. 4, No. 12, pp. 555-557, Dec. 1977.
- Clauss, R., Flesner, L. D., and Schultz, S., "Simple Waveguide Reflection Maser with Broad Tunability," *Rev. Sci. Instrum.*, Vol. 48, No. 8, pp. 1104-1105, Aug. 1977.
- A Collection of Articles on S/X-Band Experiment Zero Delay Ranging Tests*, Technical Memorandum 33-747, Vol. I, Jet Propulsion Laboratory, Pasadena, Calif., Nov. 1, 1975.
- Curkendall, D. W., "Algorithms for Isolating Worst Case Systematic Data Errors," *J. Guidance Contr.*, Vol. 1, No. 1, pp. 56-62, Jan.-Feb. 1978.
- Dickinson, R. M., "The Beamed Power Microwave Transmitting Antenna," *IEEE Trans. Microwave Theor. Tech.*, Vol. MTT-26, No. 5, pp. 335-340, May 1978.
- Dickinson, D. F., et al., "Sensitive Ammonia Observations in the Southern Hemisphere," *Astron. J.*, in press (Aug. 1982).
- Downs, G. S., and Reichley, P. E., *Techniques for Measuring Arrival Times of Pulsar Signals I: DSN Observations from 1968 to 1980*, Publication 80-54, Jet Propulsion Laboratory, Pasadena, Calif., Aug. 15, 1980.
- Downs, G. S., "JPL Pulsar Timing Observations. I. The Vela Pulsar," *Ap. J.*, Vol. 249, pp. 687-697, Oct. 15, 1981.

- Downs, G. S., "JPL Pulsar Timing Observations. Spinups in PSR 0525+21," *Ap. J. (Letters)*, Vol. 257, L67-L70, June 15, 1982.
- Duxbury, T. C., Johnson, T. V., and Matson, D. L., "Galilean Satellite Mutual Occultation Data Processing," *Icarus*, Vol. 25, No. 4, pp. 569-584, Aug. 1975.
- Edelson, R. E., "An Observational Program to Search for Radio Signals From Extraterrestrial Intelligence Through the Use of Existing Facilities," Preprint IAF-A-76-033, Int. Astronaut. Fed. XXVII Congress, Anaheim, Calif., Oct. 10-16, 1976.
- Edelson, R. E., and Levy, G. S., "The Search for Extraterrestrial Intelligence: Telecommunications Technology," *Proceedings of the 1976 National Telecommunications Conference*, Vol. I, Dallas, Tex., Nov. 29-Dec. 1, 1976.
- Edelson, R. E., "An Experimental Protocol for a Search for Radio Signals of Extraterrestrial Intelligent Origin in the Presence of Man-Made Radio Frequency Sources," paper presented at the XXVIIIth International Astronautical Congress, Prague, Czechoslovakia, Sept. 25-Oct. 1, 1977.
- Estabrook, F. B., and Wahlquist, H. D., "Response of Doppler Spacecraft Tracking to Gravitational Radiation," *Gen. Relat. Grav.*, Vol. 6, No. 5, pp. 439-447, Oct. 1975.
- Estacion Espacial de Madrid: Madrid Space Station*, Special Publication 43-26, Jet Propulsion Laboratory, Pasadena, Calif., Aug. 31, 1975.
- Evans, R. H., Kent, S. S., and Seidman, J. B., *Satellite Remote Sensing Facility for Oceanographic Applications*, Publication 80-40, Jet Propulsion Laboratory, Pasadena, Calif., July 1, 1980.
- Ferrari, A. J., and Ananda, M. P., "Lunar Gravity: A Long-Term Keplerian Rate Method," *J. Geophys. Res.*, Vol. 82, No. 20, pp. 3085-3097, July 10, 1977.
- Fjeldbo, G., et al., "Viking Radio Occultation Measurements of the Martian Atmosphere and Topography: Primary Mission Coverage," *J. Geophys. Res.*, Vol. 82, No. 28, pp. 4317-4324, Sept. 30, 1977.
- Fliegel, H., *Session III of the VLBI/Laser Intercomparison Task of the NASA Crustal Dynamics Project*, Publication 81-96, Jet Propulsion Laboratory, Pasadena, Calif., Nov. 1, 1981.
- Fortenberry, J. W., Freeland, R. E., and Moore, D. M., *Five-Meter-Diameter Conical Furlable Antenna*, Technical Report 32-1604, Jet Propulsion Laboratory, Pasadena, Calif., July 15, 1976.
- Freiley, A. J., Batelaan, P. D., and Bathker, D. A., *Absolute Flux Density Calibrations of Radio Sources: 2.3 GHz*, Technical Memorandum 33-806, Jet Propulsion Laboratory, Pasadena, Calif., Dec. 1, 1977.
- Gagliardi, R. M., Vilnrotter, V. A., and Dolinar, S. J., *Optical Deep Space Communication via Relay Satellite*, Publication 81-40, Jet Propulsion Laboratory, Pasadena, Calif., Aug. 15, 1981.
- Goldstein, R. M., and Morris, G. A., "Ganymede: Observations by Radar," *Science*, Vol. 188, No. 4194, pp. 1211-1212, June 20, 1975.
- Goldstein, R. M., Green, R. R., and Rumsey, H., Jr., "Venus Radar Images," *J. Geophys. Res.*, Vol. 81, No. 26, pp. 4807-4817, Sept. 10, 1976.

- Goodwin, P. S., et al., *Tracking and Data Systems Support for the Helios Project: Project Development Through End of Mission Phase II*, Technical Memorandum 33-752, Vol. I, Jet Propulsion Laboratory, Pasadena, Calif., July 1, 1976.
- Goodwin, P. S., et al., *Tracking and Data Systems Support for the Helios Project: DSN Support of Project Helios April 1975 Through May 1976*, Technical Memorandum 33-752, Vol. II, Jet Propulsion Laboratory, Pasadena, Calif., Jan. 15, 1977.
- Goodwin, P. S., Jensen, W. N., and Flanagan, F. M., *Tracking and Data Systems Support for the Helios Project: DSN Support of Project Helios May 1976 Through June 1977*, Technical Memorandum 33-752, Vol. III, Jet Propulsion Laboratory, Pasadena, Calif., Mar. 1, 1979.
- Gulkis, S., et al., "An All-Sky Search for Narrow-Band Radiation in the Frequency Range 1-25 GHz," paper presented at the 1976 U.S. National Commission, International Union of Radio Science, Amherst, Mass., Oct. 10-15, 1976.
- Harris, A. W., et al., "2290-MHz Flux Densities of 52 High-Declination Radio Sources," *Astron. J.*, Vol. 81, No. 4, pp. 222-224, Apr. 1976.
- Higa, W. H., "Spurious Signals Generated by Electron Tunneling on Large Reflector Antennas," *Proc. IEEE*, Vol. 63, No. 2, pp. 306-313, Feb. 1975.
- Higa, W. H., *The Superconducting Cavity-Stabilized Maser Oscillator*, Technical Memorandum 33-805, Jet Propulsion Laboratory, Pasadena, Calif., Dec. 15, 1976.
- Hunter, J. A., "Orbiting Deep Space Relay Station, A Study Report," paper presented at AIAA Conference on Large Space Platforms, Future Needs and Capabilities, Los Angeles, Calif., Sept. 27-29, 1978.
- Jacobson, R. A., McDanell, J. P., and Rinker, G. C., "Use of Ballistics Arcs in Low Thrust Navigation," *J. Spacecraft Rockets*, Vol. 12, No. 3, pp. 138-145, Mar. 1975.
- Jauncey, D. F., et al., "18-25 GHz Low Noise Line Receiver for the Tidbinbilla 64M Antenna," *Proc. Astr. Soc. Aust.*, CSIRO preprint.
- Jauncey, D. L., et al., "2.3 GHz Accurate Position and Optical Identifications for Selected Parkes Radio Sources," *Am. J.*, May 1982.
- Jurgens, R. F., and Goldstein, R. M., "Radar Observations at 3.5 and 12.6 cm Wavelength of Asteroid 433 Eros," *Icarus*, Vol. 28, No. 1, pp. 1-15, May 1976.
- Jurgens, R. F., and Bender, D. F., "Radar Detectability of Asteroids," *Icarus*, Vol. 31, No. 4, pp. 483-497, Aug. 1977.
- Katow, M. S., "Evaluating Computed Distortions of Parabolic Reflectors," *Record of IEEE 1977 Mechanical Engineering in Radar Symposium, Arlington, Virginia, Nov. 8-10, 1977*, IEEE Publication 77CH 1250-0 AES, pp. 91-93.
- Kliore, A. J., Woiceshyn, P. M., and Hubbard, W. P., "Pioneer 10 and 11 Radio Occultations by Jupiter," *COSPAR Space Research*, Vol. XVII, pp. 703-710, Pergamon Press Ltd., Oxford, 1978.
- Kliore, A., et al., "The Polar Ionosphere of Venus Near the Terminator From Early Pioneer Venus Orbiter Radio Occultation," *Science*, Vol. 203, No. 4382, pp. 765-768, Feb. 23, 1979.
- Krishnamohan, S., and Downs, G. S., "Intensity Dependence of the Pulse Profile and Polarization of the Vela Pulsar," *Ap. J.*, in press (Feb. 1, 1983).

- Kuiper, T. B. H., and Morris, M., "Searching for Extraterrestrial Civilizations," *Science*, Vol. 196, pp. 616-621, May 6, 1977.
- Lesh, J. R., "Sequential Decoding in the Presence of a Noisy Carrier Reference," *IEEE Trans. Commun.*, Vol. COM-23, No. 11, pp. 1292-1297, Nov. 1975.
- Levitt, B. K., "Long Frame Sync Words for Binary PSK Telemetry," *IEEE Trans. Commun.*, COM-23, No. 11, pp. 1365-1367, Nov. 1975.
- Levy, G. S., et al., "Helios-1 Faraday Rotation Experiment: Results and Interpretations of the Solar Occultations in 1975," *J. Geophys.*, Vol. 42, No. 6, pp. 659-672, 1977.
- Levy, R., "Computer-Aided Design of Antenna Structures and Components," *Comput. Struc.*, Vol. 6, Nos. 4/5, pp. 419-428, Aug./Oct. 1976.
- Levy, R., and McGinness, H., *Wind Power Prediction Models*, Technical Memorandum 33-802, Jet Propulsion Laboratory, Pasadena, Calif., Nov. 15, 1976.
- Levy, R., and Katow, M. S., "Implementation of Wind Performance Studies for Large Antenna Structures," *Record of IEEE 1977 Mechanical Engineering in Radar Symposium, Arlington, Virginia, Nov. 8-10, 1977*, IEEE Publication 77CH 1250-0 AES, pp. 27-33.
- Levy, R., "Antenna Bias Rigging for Performance Objective," *Record of IEEE 1977 Mechanical Engineering in Radar Symposium, Arlington, Virginia, Nov. 8-10, 1977*, IEEE Publication 77CH 1250-0 AES, pp. 94-97.
- Liu, A. S., and Pease, G. E., "Spacecraft Ranging From a Ground Digitally Controlled Oscillator," *J. Spacecraft Rockets*, Vol. 12, No. 9, pp. 528-532, Sept. 1975.
- Liu, K. Y., The Effects of Receiver Tracking Phase Error on the Performance of the Concatenated Reed-Solomon/Viterbi Channel Coding System, Publication 81-62, Jet Propulsion Laboratory, Pasadena, Calif., Sept. 1, 1981.
- Martin, W. L., and Zygielbaum, A. I., *Mu-II Ranging*, Technical Memorandum 33-768, Jet Propulsion Laboratory, Pasadena, Calif., May 15, 1977.
- Melbourne, W. G., "Navigation between the Planets," *Sci. Amer.*, Vol. 234, No. 6, pp. 58-74, June 1976.
- Miller, R. B., *Tracking and Data System Support for the Pioneer Project: Pioneer 10—From April 1, 1972, Through the Jupiter Encounter Period, January 1974*, Technical Memorandum 33-584, Vol. III, Jet Propulsion Laboratory, Pasadena, Calif., June 15, 1975.
- Miller, R. B., et al., *Tracking and Data System Support for the Pioneer Project: Pioneer 10—From January 1974 to January 1975; Pioneer 11—From May 1, 1973 Through Jupiter Encounter Period, January 1975*, Technical Memorandum 33-584, Vol. IV, Jet Propulsion Laboratory, Pasadena, Calif., Dec. 1, 1975.
- Miller, R. L., Deutsch, L. J., and Butman, S. A., *On the Error Statistics of Viterbi Decoding and the Performance of Concatenated Codes*, Publication 81-9, Jet Propulsion Laboratory, Pasadena, Calif., Sept. 1, 1981.
- Mudgway, D. J., *Tracking and Data System Support for the Viking 1975 Mission to Mars: Prelaunch Planning, Implementation, and Testing*, Technical Memorandum 33-783, Vol. I, Jet Propulsion Laboratory, Pasadena, Calif., Jan. 15, 1977.
- Mudgway, D. J., and Traxler, M. R., *Tracking and Data System Support for the Viking 1975 Mission to Mars: Launch Through Landing of Viking 1*, Technical Memorandum 33-783, Vol. II, Jet Propulsion Laboratory, Pasadena, Calif., Mar. 15, 1977.

Mudgway, D. J., *Tracking and Data System Support for the Viking 1975 Mission to Mars: Planetary Operations*, Technical Memorandum 33-783, Vol. III, Jet Propulsion Laboratory, Pasadena, Calif., Sept. 1, 1977.

Mudgway, D. J., *Tracking and Data System Support for the Viking 1975 Mission to Mars: Extended Mission Operations December 1976 to May 1978*, Technical Memorandum 33-783, Vol. IV, Jet Propulsion Laboratory, Pasadena, Calif., Dec. 15, 1978.

Muhleman, D. O., Esposito, P. B., and Anderson, J. D., "The Electron Density Profile of the Outer Corona and the Interplanetary Medium From Mariner-6 and Mariner-7 Time-Delay Measurements," *Astrophys. J.*, No. 211, No. 3, Part 1, pp. 943-957, Feb. 1, 1977.

Murray, B. C., Gulkis, S., and Edelson, R. E., "Extraterrestrial Intelligence: An Observational Approach," *Science*, Vol. 199, No. 4328, pp. 485-492, Feb. 3, 1978.

Ohlson, J. E., "Polarization Tracking of a Partially Coherent Signal Using a Double Loop," *IEEE Trans. Commun.*, Vol. COM-23, No. 9, pp. 859-866, Sept. 1975.

Ohlson, J. E., and Reid, M. S., *Conical-Scan Tracking With the 64-m-diameter Antenna at Goldstone*, Technical Report 32-1605, Jet Propulsion Laboratory, Pasadena, Calif., Oct. 1, 1976.

Ong, K. M., et al., "A Demonstration of a Transportable Radio Interferometric Surveying System With 3-cm Accuracy on a 307-m Base Line," *J. Geophys. Res.*, Vol. 81, No. 20, pp. 3587-3593, July 10, 1976.

Otoshi, T. Y., and Stelzried, C. T., "Cosmic Background Noise Temperature Measurement at 13-cm Wavelength," *IEEE Trans. Instr. Meas.*, Vol. IM-24, No. 2, pp. 174-179, June 1975.

Phillips, R. J., et al., "Simulation Gravity Modeling to Spacecraft-Tracking Data: Analysis and Application," *J. Geophys. Res.*, Vol. 83, No. B11, pp. 5455-5464, Nov. 10, 1978.

Posner, E. C., "Random Coding Strategies for Minimum Entropy," *IEEE Trans. Inform. Theor.*, Vol. IT-21, No. 4, pp. 388-391, July 1975.

Posner, E. C., "Life Cycle Costing with a Discount Rate," *Utilitas Mathematica*, Vol. 13, pp. 157-188, 1978.

Powell, R. V., and Hibbs, A. R., "An Entree for Large Space Antennas," *Astronaut. Aeronaut.*, Vol. 15, No. 12, pp. 58-64, Dec. 1977.

Reed, I. S., Truong, T. K., and Benjauthrit, B., "On Decoding of Reed-Solomon Codes over GF(32) and GF(64) Using the Transform Techniques of Winograd," *Conference Record, 1978 National Telecommunications Conference*, Vol. 2, Birmingham, Alabama, Dec. 3-6, 1978.

Simon, M. K., "A Generalization of Minimum-Shift-Keying (MSK) Type Signaling Based Upon Input Data Symbol Pulse Shaping," *IEEE Trans. Commun.*, Vol. COM-24, No. 8, pp. 845-856, Aug. 1976.

Simon, M. K., "An MSK Approach to Offset QASK," *IEEE Trans. Commun.*, Vol. COM-24, No. 8, pp. 921-923, Aug. 1976.

Simon, M. K., "The False Lock Performance of Costas Loops with Hard-Limited In-Phase Channel," *IEEE Trans. Commun.*, Vol. COM-26, No. 1, pp. 23-34, Jan. 1978.

- Simon, M. K., "On the Calculation of Squaring Loss in Costas Loops with Arbitrary Arm Filters," *IEEE Trans. Commun.*, Vol. COM-26, No. 1, pp. 179-184, Jan. 1978.
- Simon, M. K., "Tracking Performance of Costas Loops With Hard-Limited In-Phase Channel," *IEEE Trans. Commun.*, Vol. COM-26, No. 4, pp. 420-432, Apr. 1978.
- Sjogren, W. L., et al., "Gravity Fields," *IEEE Trans. Geosci. Electron.*, Vol. GE-14, No. 3, pp. 172-183, July 1976.
- Slade, M. A., et al., "Alsep-Quasar Differential VLBI," *The Moon*, Vol. 17, pp. 133-147, 1977.
- Smith, E. K., and Edelson, R. E., *Radio Propagation Through Solar and Other Extra-terrestrial Ionized Media*, Publication 79-117, Jet Propulsion Laboratory, Pasadena, Calif., Jan. 15, 1980.
- Stelzried, C. T., Seidel, B. L., and Hollweg, J. V., "Possible Evidence for Coronal Alfvén Waves," *J. Geophys. Res.*, Vol. 87, No. A1, pp. 1-8, Jan 1, 1982.
- Sue, M. K., *Radio Frequency Interference at the Geostationary Orbit: Final Report*, Publication 81-34, Jet Propulsion Laboratory, Pasadena, Calif., June 15, 1981.
- Tausworthe, R. C., *Standard Classifications of Software Documentation*, Technical Memorandum 33-756, Jet Propulsion Laboratory, Pasadena, Calif., Jan. 15, 1976.
- Tausworthe, R. C., *Deep Space Network Software Cost Estimation Model*, Publication 81-7, Jet Propulsion Laboratory, Pasadena, Calif., Apr. 15, 1981.
- Thomas, J. B., et al., "A Demonstration of an Independent-Station Radio Interferometry System With 4-cm Precision on a 16-km Base Line," *J. Geophys. Res.*, Vol. 81, No. 5, pp. 995-1005, Feb. 10, 1976.
- Thomas, J. B., *An Analysis of Source Structure Effects in Radio Interferometry Measurements*, Publication 80-84, Jet Propulsion Laboratory, Pasadena, Calif., Dec. 15, 1980.
- Thomas, J. B., *An Analysis of Radio Interferometry with the Block O System*, Publication 81-49, Jet Propulsion Laboratory, Pasadena, Calif., Dec. 15, 1981.
- Toukdarian, R. Z., *Final Engineering Report for Goldstone Operations Support Radar*, Technical Memorandum 33-800, Jet Propulsion Laboratory, Pasadena, Calif., Nov. 1, 1976.
- Truong, T. K., and Reed, I. S., "Convolutions Over Residue Classes of Quadratic Integers," *IEEE Trans. Inform. Theor.*, Vol. IT-22, No. 4, pp. 468-475, July 1976.
- Truong, T. K., and Reed, I. S., "Convolutions over Quartic Integer Residue Classes," *Proceedings of the International Conference on Information Sciences and Systems*, Patras, Greece, Aug. 19-24, 1976.
- Truong, T. K., Liu, K. Y., and Reed, I. S., "Fast Number-Theoretic Transforms for Digital Filtering," *Electron. Lett.*, Vol. 12, No. 24, Nov. 1976.
- Truong, T. K., et al., "X-Ray Reconstruction by Finite Field Transforms," *IEEE Trans. Nucl. Sci.*, Vol. NS-24, No. 1, pp. 843-849, Feb. 1977.
- Truong, T. K., Golomb, S. W., and Reed, I. S., "Integer Convolutions Over the Finite Field $GF(3 \cdot 2^n + 1)$," *SIAM J. Appl. Math.*, Vol. 32, No. 2, pp. 356-365, Mar. 1977.
- Truong, T. K., Reed, I. S., and Liu, K. Y., "Fast Algorithm for Computing Complex Number-Theoretic Transforms," *Electron. Lett.*, Vol. 13, No. 10, pp. 278-280, May 12, 1977.

- Weber, W. J., III, "Performance of Phase-Locked Loops in the Presence of Fading Communication Channels," *IEEE Trans. Commun.*, Vol. COM-24, No. 5, pp. 487-499, May 1976.
- Weber, W. J., III, Ackerknecht, W. E., and Kollar, F. J., *Viking X-Band Telemetry Experiment Final Report*, Technical Memorandum 33-794, Jet Propulsion Laboratory, Pasadena, California, Sept. 1, 1976.
- Wong, J. S. L., et al., *Review of Finite Fields: Applications to Discrete Fourier Transforms and Reed-Solomon Coding*, JPL Publication 77-23, Jet Propulsion Laboratory, Pasadena, Calif., July 15, 1977.
- Woo, R., "Measurements of the Solar Wind Using Spacecraft Radio Scattering Observations," in *Study of Traveling Inter-Planetary Phenomena*, pp. 81-100, D. Reidel Publishing Co., Dordrecht, Holland/Boston, 1977.
- Woo, R., "Radial Dependence of Solar Wind Properties Deduced from Helios 1/2 and Pioneer 10/11 Radio Scattering Observations," *Astrophys. J.*, Vol. 219, No. 2, Part 1, pp. 727-739, Jan. 15, 1978.
- Woo, R. T., "Observations of Turbulence in the Atmosphere of Venus Using Mariner 10 Radio Occultation Measurements," *J. Atmos. Sci.*, Vol. 32, No. 6, pp. 1084-1090, June 1975.
- Yuen, J. H., *A Practical Statistical Model for Telecommunications Performance Uncertainty*, Technical Memorandum 33-732, Jet Propulsion Laboratory, Pasadena, Calif., June 15, 1975.